



Patent  
Atty. Docket No. GEMS8081.207

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Jean H. Brittain  
Serial No. : 10/749,167  
Filing Date : December 30, 2003  
Title : MOVING TABLE MRI WITH FREQUENCY-  
ENCODING IN THE Z-DIRECTION  
Group Art No. : 2859  
Examining Attorney : Tiffany A. Fetzner

CERTIFICATION UNDER 37 CFR 1.8(a) and 1.10

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**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §1.97/99**

Dear Sir:

In compliance with Applicant's duty of disclosure as set forth in 37 C.F.R. §1.56, listed on the attached equivalent to Form PTO-1449 are those patents, publications, and other information known to Applicant which may be considered material to the patentability of the

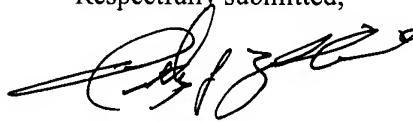
Inventor: Jean H. Brittain

S/N: 10/749,167

claims of the above-captioned application. **One copy of each non-U.S. patent reference is attached.**

Applicant respectfully requests that the documents listed on the attached equivalent to Form PTO-1449 be considered by the Examiner, that the references be made of record in the present application, and that an initialed copy of the duplicate equivalent to Form PTO-1449 be returned to the undersigned in accordance with MPEP 609.

Respectfully submitted,



Timothy J. Ziolkowski  
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Date: April 5, 2004  
Atty. Docket No.: GEMS8081.207

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PTO/SB/08A (08-00)

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	2	Attorney Docket Number	GEMS8081.207
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### Complete if Known

Application Number	10/749,167
Filing Date	December 30, 2003
First Named Inventor	Jean H. Brittain
Group Art Unit	2859
Examiner Name	Tiffany A. Fetzner

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
A	5,928,148			Wang et al.	07-27-1999	
B	6,385,478			Hajnal	05-07-2002	
C	2002/0115929	A1		Machida	08-22-2002	
D	2002/0140423	A1		Brittain	10-03-2002	
E	2002/0173715	A1		Kruger et al.	11-21-2002	
F	2003/0011369	A1		Brittain et al.	01-16-2003	
G						
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### FOREIGN PATENT DOCUMENTS

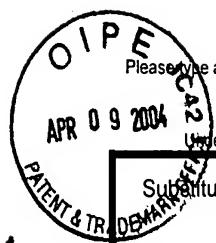
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
U	JP	H6-304153	A		GE Yokogawa Medical	11-01-1994		✓
V	JP	H6-311977	A		GE Yokogawa Medical	11-08-1994		✓
W	JP	H8-173396	A		GE Yokogawa Medical	07-09-1996		✓
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Z								

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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2

of

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### Complete if Known

Application Number	10/749,167
Filing Date	December 30, 2003
First Named Inventor	Jean H. Brittain
Group Art Unit	2859
Examiner Name	Tiffany A. Fetzner
Attorney Docket Number	GEMS8081.207

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	US Provisional Application SN 60/282,555, filed April 9, 2001.	
	2	J. PIPE, <i>Analysis of Localized Quadratic Encoding and Reconstruction</i> , MRM 36:137–146 (1996)	
	3	K. LIU et al., <i>Applications of Shifted-Interleaved Multi-Volume Acquisition (SIMVA) with Suppressed Slab Boundary Artifact</i> , ISMRM Seventh Scientific Meeting, pg. 1618 (1999)	
	4	K. LIU et al., <i>Artifact Transformation Technique: Shifted Interleaved Multi-Volume Acquisition (SIMVA) for 3D FSE</i> , ISMRM Sixth Scientific Meeting, pg. 572 (1998)	
	5	O. DIETRICH et al., <i>Extending the Coverage of True Volume Scans by Continuous Movement of the Subject</i> , ISMRM Seventh Scientific Meeting, pg. 1653 (1999)	
	6	K.Y. HO et al., <i>Gadolinium Optimized Tracking Technique: A New MRA Technique for Imaging the Peripheral Vascular Tree from Aorta to the Foot Using One Bolus of Gadolinium</i> , ISMRM Fifth Scientific Meeting, pg. 203 (1997)	
	7	J. HENNIG, <i>Overlapping Section Coverage in Multisection Imaging</i> , JMRI 3:425–432 (1993)	
	8	K. LIU et al., <i>Sliding Interleaved k<sub>y</sub> (SLINKY) Acquisition: A Novel 3D MRA Technique with Suppressed Slab Boundary Artifact</i> , JMRI 8:903–911 (1998)	
	9	K. LIU, <i>SLINKY: More Understanding, Optimization and Application for High Resolution MRA</i> , ISMRM Seventh Scientific Meeting, pg. 1908 (1999)	
	10	J. PIPE, <i>Spatial Encoding and Reconstruction in MRI with Quadratic Phase Profiles</i> , MRM 33:24–33 (1995)	
	11	K. LIU et al., <i>Systematic Assessment and Evaluation of Sliding Interleaved k<sub>y</sub> (SLINKY) Acquisition for 3D MRA</i> , JMRI 8:912–923 (1998)	

Examiner Signature		Date Considered
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